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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,283	09/18/2003	Franky So	12406-161001 /P003,0944 U	9067
26181 7	590 06/16/2006		EXAMINER	
FISH & RICHARDSON P.C. PO BOX 1022			THOMPSON, CAMIE S	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1774	
			DATE MAILED: 06/16/2006	DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

.		Application No.	Applicant(s)	<u></u>		
		10/666,283	SO ET AL.			
Office Action Summary		Examiner	Art Unit	_		
	•	Camie S. Thompson	1774			
	The MAILING DATE of this communication app	*		_		
Period fo			•			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES OF THE MAILING DA	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on Amer	ndment filed 3/28/06.				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-30</u> is/are pending in the application. 4a) Of the above claim(s) <u>11-25</u> is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-10 and 26-30</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the correction of the correct	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12)[/ a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau ee the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on Noed in this National Stage			
2) D Notice 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

1. Applicant's amendment and accompanying remarks filed March 28, 2006 have been acknowledges.

- 2. The rejection of claims 1-6 and 10 under 35 U.S.C. 102(e) as being anticipated by Wu et al., U.S. Patent Number 6,815,505 is withdrawn due to applicant's argument.
- 3. The rejection of claims 7-9 under 35 U.S.C. 103(a) as being unpatentable over Wu et al., U.S. Patent Number 6,815,505 is withdrawn due to applicant's argument.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-6, 10 and 26-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Hirose et al., U.S. Pre Grant Publication 2004/0081854.

Hirose discloses an organic electroluminescent element having a pair of electrodes including an anode and a cathode and at least one organic compound layer disposed therebetween (see paragraph 0045). The reference also discloses that the organic layer comprises at least one non-conjugated polymer wherein at least one of the terminal groups of the main chain has a fluorescent substance emitting fluorescence in the solid state (see paragraph 0046). The

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reference reads on the instant claims when at least one (which can include both terminal ends of the polymer main chain) has a fluorescent substance emitting fluorescence. Additionally, the reference reads on the instant claims when the terminal groups(s) can be a chelating metal complex (see reference claim 14). Also, the Hirose reference discloses that the non-conjugated polymer can have repeat units selected from polyester, polyurethane and polyether.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirose et al., U.S. Pre Grant Publication 2004/0081854.

Hirose discloses an organic electroluminescent element having a pair of electrodes including an anode and a cathode and at least one organic compound layer disposed therebetween (see paragraph 0045). The reference also discloses that the organic layer comprises at least one non-conjugated polymer wherein at least one of the terminal groups of the main chain has a fluorescent substance emitting fluorescence in the solid state (see paragraph 0046). The reference reads on the instant claims when at least one (which can include both terminal ends of the polymer main chain) has a fluorescent substance emitting fluorescence. Additionally, the reference reads on the instant claims when the terminal groups(s) can be a chelating metal complex (see reference claim 14). Also, the Hirose reference discloses that the non-conjugated

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polymer can have repeat units selected from polyester, polyurethane and polyether. The Hirose reference does not disclose the concentration of the two end groups. The amount of the end groups affects the facilitation of charge carriers. Discovery of optimum values of a result effective variable involves only routine skill in the art *in re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). Therefore, it would have been obvious to one of ordinary skill in the art to have the concentration of the end groups less than the concentration of the first or second monomer in order to facilitate attaining a balance of holes and electrons.

Response to Arguments

8. Applicant's arguments with respect to claims 1-10 and 26-30 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER